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In Fig. 2, reference numerals 5 and 6 indicate polyethylene workpieces, wherein the workpiece 5 represents permeability with respect to laser radiation; surfaces 5a and 6a of the workpieces are disposed in contact with each other with polyethylene 7 containing carbon black being interposed therebetween; the workpieces 5 and 6 are supported by glass plates 8 and 9 exhibiting permeability with respect to laser radiation. The above-mentioned polyethylene 7 serves as adhesive agent that represents adhesion when heated to be melted.

## ADHERING METHOD FOR MEMBER BY LASER

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Ref 3

### Abstract

**PURPOSE:** To adhere thermoplastic tight contact members one of which allows the transmission of laser light or members which are interposed with a laser absorptive adhesive agent and one of which has transmission without deviation and oxidation by irradiating the laser light to the above-mentioned members.

**CONSTITUTION:** Resin materials 1, 2 which both have thermoplasticity and one of which allows the transmission of the laser light are tightly adhered by glass plates 3, 4 or members 5, 6 at least one of which has the transmittivity are tightly adhered via an adhesive agent which absorbs the laser light, for example, ferrite, etc., interposed therebetween. The laser light 10 is irradiated on the members from the material 1, 8 side to heat and join the joint surfaces 2a or the adhesive agent 7. The members are satisfactorily joined without the generation of the deviation and oxide in the joined part and the joining can be executed regardless of the joining materials. The adhesive agent 7 may not contain the ferrite, etc., if the lower plate 6 of the two plates 5, 6 has no transmittivity.

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